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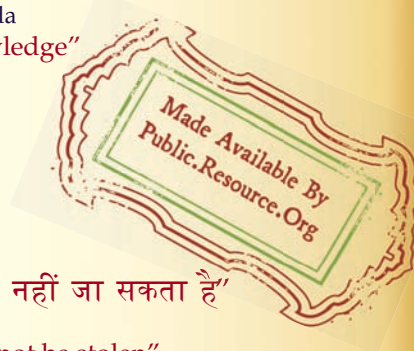
IS 1965 (1972): Bleaching Earths of Indian Origin Used for Bleaching Vegetable Oils [FAD 13: Oils and Oilseeds]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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SPECIFICATION FOR BLEACHING EARTHS OF INDIAN ORIGIN USED FOR BLEACHING VEGETABLE OILS (*First Revision*)

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR BLEACHING EARTHS OF INDIAN ORIGIN USED FOR BLEACHING VEGETABLE OILS

(First Revision)

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Indian Standard

SPECIFICATION FOR BLEACHING EARTHS OF INDIAN ORIGIN USED FOR BLEACHING VEGETABLE OILS (*First Revision*)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 24 March 1972, after the draft finalized by the Oils and Oilseeds Sectional Committee had been approved by the Chemical Division Council and the Agricultural and Food Products Division Council.

0.2 Bleaching earths are used mainly for bleaching oils and fats. In India, they are used chiefly in the manufacture of edible oil products, such as refined oils, *VANASPATI* and margarine and are also employed for treatment of fatty raw materials in the manufacture of such products as soaps, toilet preparations and paints.

0.3 The two main classes of bleaching earths encountered in commerce are neutral or acidic. Formerly, bleaching earths were not subjected to special chemical treatment before use but the improved performance of earths which have been activated with acids or other chemicals has led to their predominant use in many fields.

0.4 Formerly, all the bleaching earths used in this country were imported principally from Britain and Germany. Indigenous production of bleaching earths is now firmly established but certain grades, especially suited for dark-coloured oils that are difficult to bleach, are still being imported though in very small quantities.

0.5 Types and grades of bleaching earths are normally chosen to suit the kind of oil being treated and the result required. This applies to imported earths as well those manufactured indigenously. The Sectional Committee has based this revised standard on the experience of manufacturers, consumers and testing authorities concerned in the country, as also the valuable data supplied by the Council of Scientific and Industrial Research and its laboratories. It is hoped that the specifications prescribed in this revised standard will enable the producers as well as the consumers to have a proper appreciation of the material and will also serve as an incentive to the indigenous industry.

0.6 In the revision of the standard, originally published in 1961, the requirement for decolorizing power has been substituted by that for bleaching efficiency, in line with the corresponding change in the standard on the methods of test. The title of the standard has also been accordingly modified.

0.7 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements for bleaching earths, acidic as well as neutral.

2. GRADES

2.1 The acidic bleaching earth shall be of two grades, namely, Grade 1 and Grade 2.

2.2 The neutral bleaching earth shall be of one grade only.

3. SAMPLING

3.1 Representative samples of the material shall be drawn as prescribed under 2 of IS : 1035-1972†.

4. REQUIREMENTS

4.1 The material shall be a clay belonging to the bentonite or related groups, with or without treatment by acids and other chemicals.

4.2 The material shall also comply with the requirements given in Table 1.

5. TESTS

5.1 Tests shall be carried out as prescribed in IS : 1035-1972. Reference to clause number of IS : 1035-1972† is given in col 6 of Table 1.

6. PACKING AND MARKING

6.1 Packing — The material shall be supplied in suitable, securely closed containers, as agreed to between the purchaser and the supplier.

*Rules for rounding off numerical values (*revised*).

†Methods of sampling and test for bleaching earths (*second revision*).

**TABLE 1 REQUIREMENTS FOR BLEACHING EARTHS
OF INDIAN ORIGIN USED FOR BLEACHING
VEGETABLE OILS**

(Clauses 4.2 and 5.1)

SL No.	CHARACTERISTIC	REQUIREMENT			METHOD OF TEST (REF TO CL No. OF IS : 1035- 1972*)
		Acidic		Neutral	
		Grade 1	Grade 2		
(1)	(2)	(3)	(4)	(5)	(6)
i)	Moisture, percent by mass, <i>Max</i>	15.0	10.0	10.0	4
ii)	Bulk density, grams per millilitre, <i>Max</i>	0.9	0.9	1.2	5
iii)	Screen analysis:				6
	a) Retained on 125- micron IS Sieve, percent by mass, <i>Max</i>	15.0	20.0	25.0	
	b) Retained on 53- micron IS Sieve, percent by mass, <i>Max</i>	40.0	40.0	40.0	
iv)	Acidity, as H ₂ SO ₄ , percent by mass, <i>Max</i>	0.2	0.2	Nil	7
v)	Alkalinity, as NaOH, percent by mass, <i>Max</i>	Nil	Nil	0.1	7
vi)	Bleaching efficiency, percent, <i>Min</i>	95	85	80	8
vii)	Oil retention, percent by mass, <i>Max</i>	40	35	30	9

*Methods of sampling and test for bleaching earths (*second revision*).

6.2 Marking—The containers shall be marked with the following information:

- Manufacturer's name;
- Recognized trade-mark, if any;
- Name and grade of the material;
- Mass of the material in the container;

- e) Month and year of manufacture; and
- f) Batch number in code or otherwise to enable the lot of manufacture to be traced back from records.

6.2.1 The containers may also be marked with the Standard Mark.

6.2.2 The use of the Standard Mark is governed by the provisions of Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

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